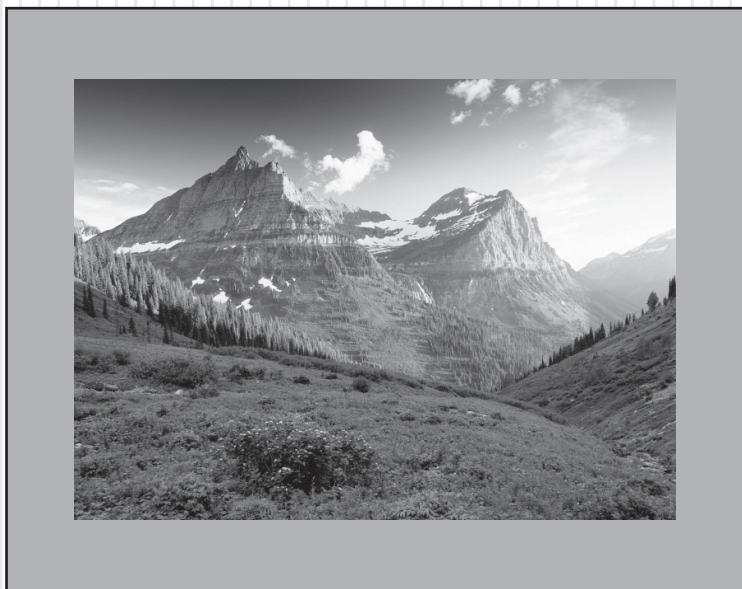


Montana
Comprehensive Assessment
System (MontCAS, Phase 2)
Criterion-Referenced Test (CRT)

COMMON CONSTRUCTED-RESPONSE ITEM RELEASE
MATHEMATICS, GRADE 3

2007



OFFICE OF PUBLIC INSTRUCTION

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Mathematics

Session 1 (Calculator)

You may use a calculator during this part of the test.

25. Dan asked his friends to name their favorite school subject. The list below shows what they said.

reading	math	science	math
social studies	reading	math	science
reading	math	math	reading

- a. How many votes did each subject receive?

_____ reading _____ math _____ science _____ social studies

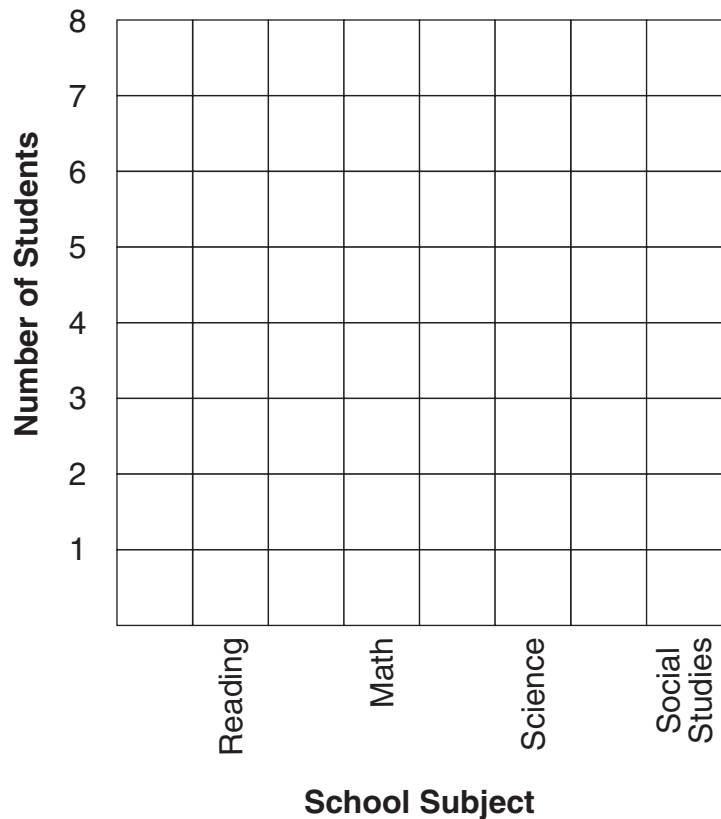
- b. On the grid below, make a bar graph showing the favorite school subjects. Be sure to include a title and labels. For your labels, use

R for reading,

M for math,

S for science, and

SS for social studies.



- c. What subject was named most often? _____

Scoring Guide

Score	Description
4	5 points
3	$4 - 4\frac{1}{2}$
2	$2\frac{1}{2} - 3\frac{1}{2}$ points
1	$\frac{1}{2} - 2$ points
0	Response is incorrect or contains some correct work that is irrelevant to the skill or concept being measured.
Blank	No response.

Scoring Notes

Part a: (Maximum 2 points)

$\frac{1}{2}$ point for **each** correct total (reading: 4; math: 5; science: 2; social studies: 1)

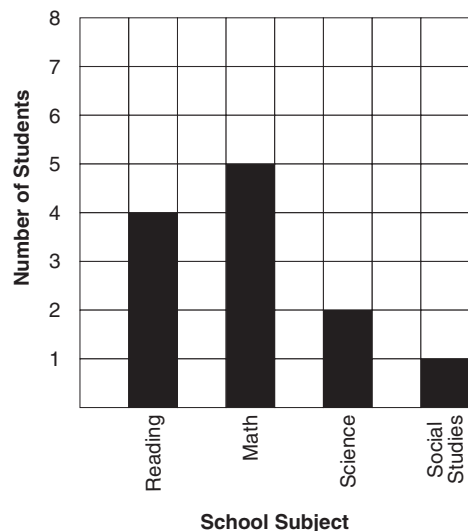
Part b: (Maximum 2 points)

$\frac{1}{2}$ point for **each** correct bar (reading: 4; math: 5; science: 2; social studies: 1)

Part c: 1 point for correct answer, **math**

Note: Student will not be scored on labeling bar graph or giving the bar graph a title as they were directed in part b. If the student changes the labels and they are correct, read along with student.

Sample Response for part b:



Sample Response for part c:

Math

Score Point 4

Sample 1

1. Dan asked his friends to name their favorite school subject. The list below shows what they said.

reading	math	science	math
social studies	reading	math	science
reading	math	math	reading

- a. How many votes did each subject receive?

4 reading 5 math 2 science 1 social studies

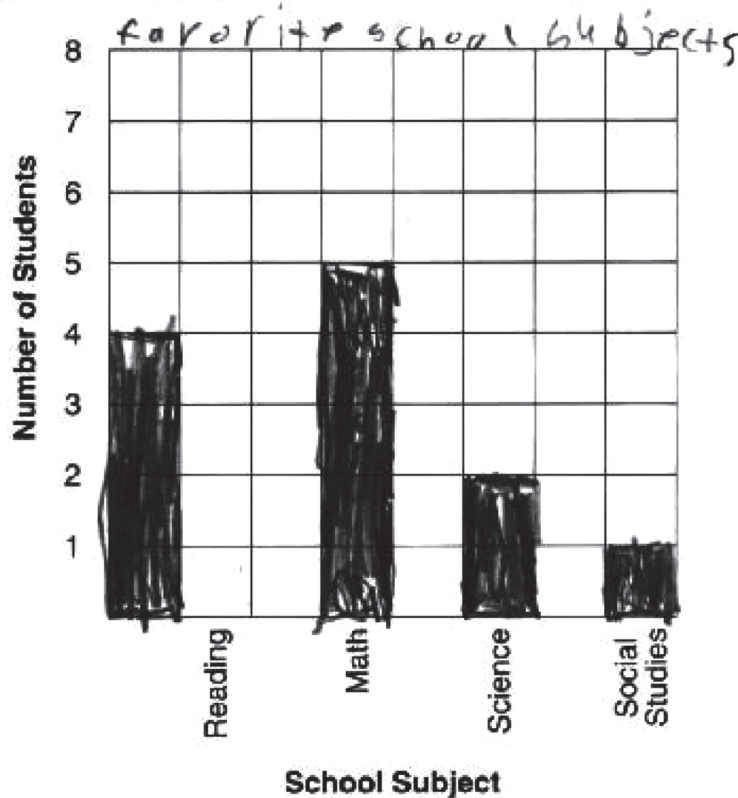
- b. On the grid below, make a bar graph showing the favorite school subjects. Be sure to include a title and labels. For your labels, use

R for reading,

M for math,

S for science, and

SS for social studies.



- c. What subject was named most often? Math

Score Point 4

Sample 2

Dan asked his friends to name their favorite school subject. The list below shows what they said.

reading	math	science	math
social studies	reading	math	science
reading	math	math	reading

- a. How many votes did each subject receive?

4 reading 5 math 2 science 1 social studies

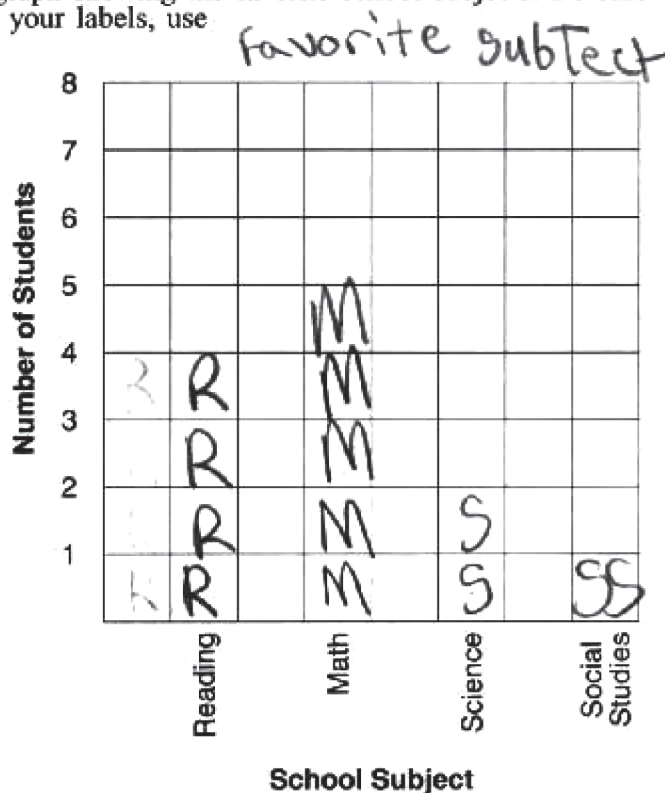
- b. On the grid below, make a bar graph showing the favorite school subjects. Be sure to include a title and labels. For your labels, use

R for reading,

M for math,

S for science, and

SS for social studies.



- c. What subject was named most often?

Math

Score Point 3

Sample 1

Dan asked his friends to name their favorite school subject. The list below shows what they said.

reading	math	science	math
social studies	reading	math	science
reading	math	math	reading

- a. How many votes did each subject receive?

4 reading 5 math 2 science 1 social studies

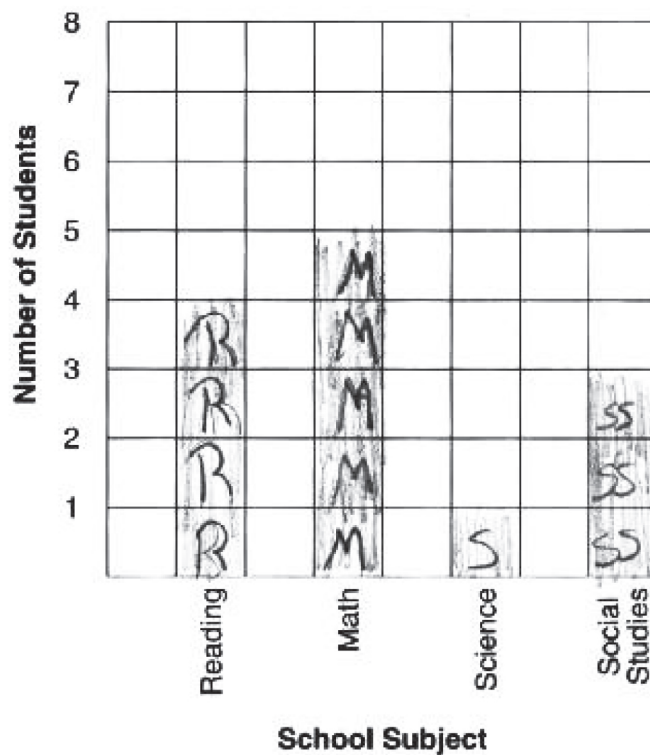
- b. On the grid below, make a bar graph showing the favorite school subjects. Be sure to include a title and labels. For your labels, use

R for reading,

M for math,

S for science, and

SS for social studies.



- c. What subject was named most often?

Math

Score Point 3

Sample 2

Dan asked his friends to name their favorite school subject. The list below shows what they said.

reading	math	science	math
social studies	reading	math	science
reading	math	math	reading

- a. How many votes did each subject receive?

4 reading 5 math 1 science 1 social studies

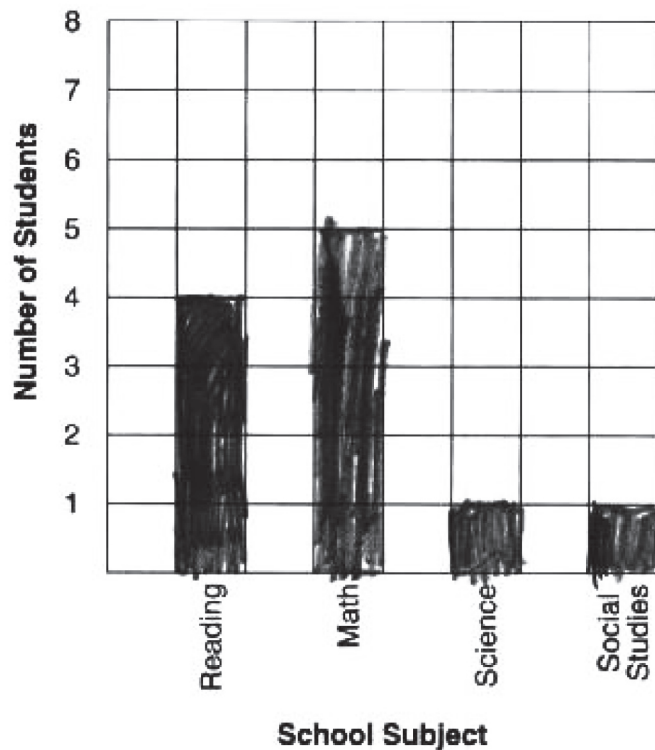
- b. On the grid below, make a bar graph showing the favorite school subjects. Be sure to include a title and labels. For your labels, use

R for reading,

M for math,

S for science, and

SS for social studies.



- c. What subject was named most often?

Math

Score Point 2

Sample 1

Dan asked his friends to name their favorite school subject. The list below shows what they said.

reading	math	science	math
social studies	reading	math	science
reading	math	math	reading

- a. How many votes did each subject receive?

4 reading 4 math 2 science 1 social studies

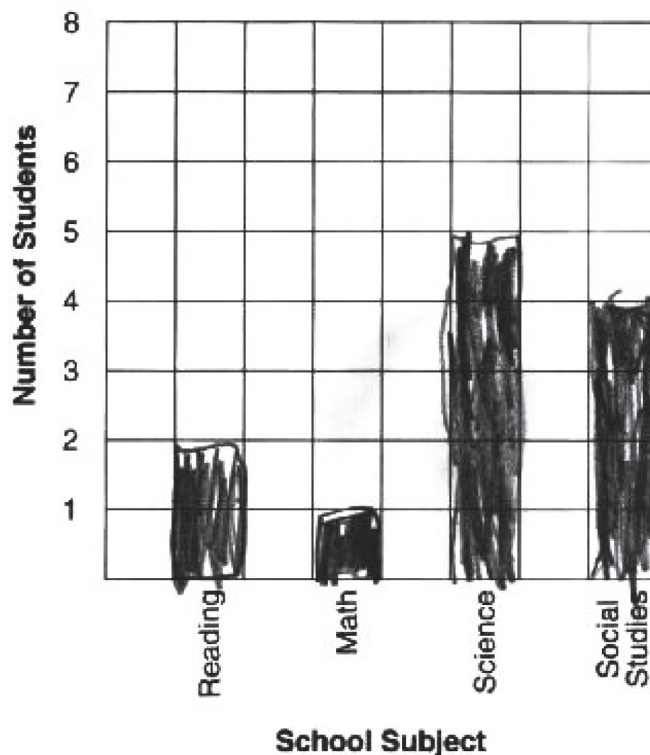
- b. On the grid below, make a bar graph showing the favorite school subjects. Be sure to include a title and labels. For your labels, use

R for reading,

M for math,

S for science, and

SS for social studies.



- c. What subject was named most often?

Science

Score Point 2

Sample 2

Dan asked his friends to name their favorite school subject. The list below shows what they said.

reading	math	science	math
social studies	reading	math	science
reading	math	math	reading

- a. How many votes did each subject receive?

5 reading 2 math 8 science 1 social studies

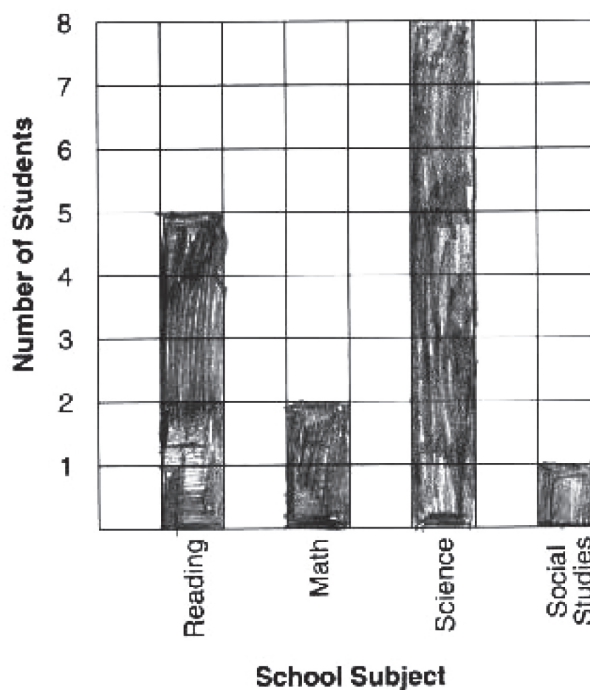
- b. On the grid below, make a bar graph showing the favorite school subjects. Be sure to include a title and labels. For your labels, use

R for reading,

M for math,

S for science, and

SS for social studies.



- c. What subject was named most often?

science

Score Point 1

Sample 1

Dan asked his friends to name their favorite school subject. The list below shows what they said.

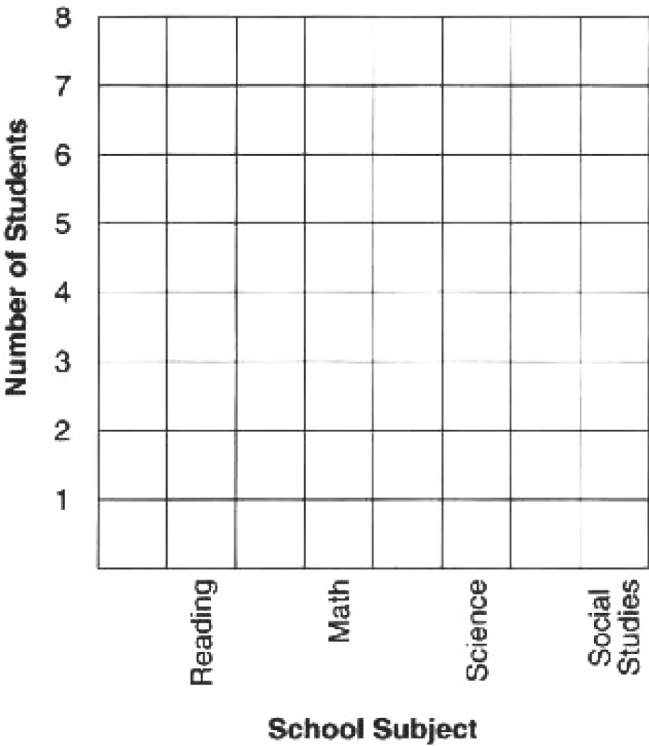
reading	math	science	math
social studies	reading	math	science
reading	math	math	reading

a. How many votes did each subject receive?

0 reading 51 math 7 science 1 social studies

b. On the grid below, make a bar graph showing the favorite school subjects. Be sure to include a title and labels. For your labels, use

R for reading,
M for math,
S for science, and
SS for social studies.



c. What subject was named most often? 100

Score Point 1

Sample 2

Dan asked his friends to name their favorite school subject. The list below shows what they said.

reading	math	science	math
social studies	reading	math	science
reading	math	math	reading

- a. How many votes did each subject receive?

4 reading 5 math 2 science 1 social studies

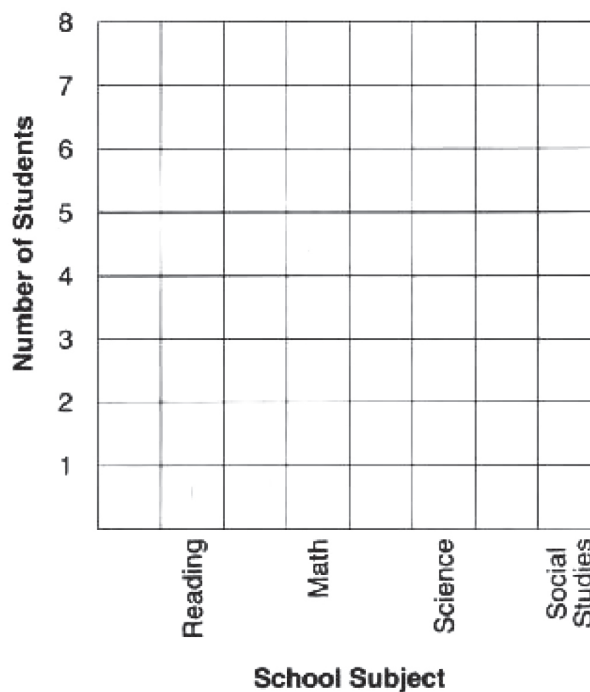
- b. On the grid below, make a bar graph showing the favorite school subjects. Be sure to include a title and labels. For your labels, use

R for reading,

M for math,

S for science, and

SS for social studies.



- c. What subject was named most often?

SS Social studies

Score Point 0

Sample 1

Dan asked his friends to name their favorite school subject. The list below shows what they said.

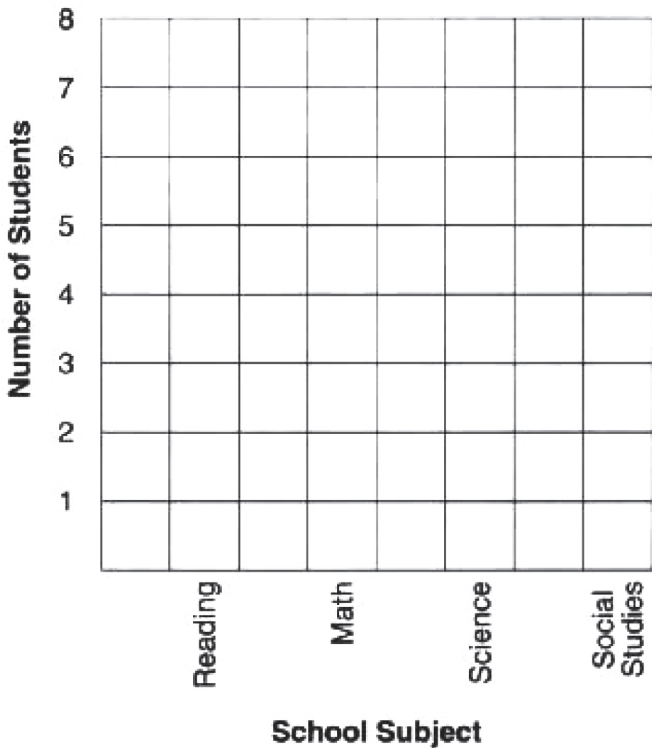
reading	math	science	math
social studies	reading	math	science
reading	math	math	reading

a. How many votes did each subject receive?

6 reading 7 math 6 science 3 social studies

b. On the grid below, make a bar graph showing the favorite school subjects. Be sure to include a title and labels. For your labels, use

R for reading,
M for math,
S for science, and
SS for social studies.



c. What subject was named most often? _____

Score Point 0

Sample 2

Dan asked his friends to name their favorite school subject. The list below shows what they said.

reading	math	science	math
social studies	reading	math	science
reading	math	math	reading

- a. How many votes did each subject receive?

Social Studies reading math science math social studies

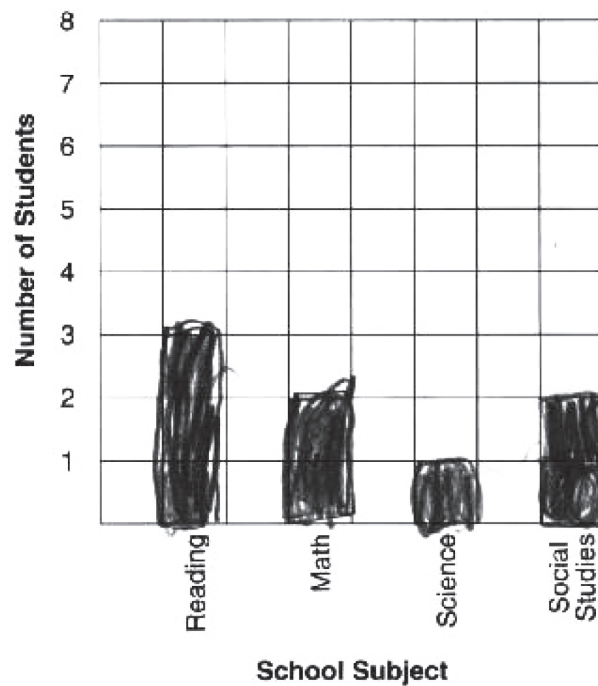
- b. On the grid below, make a bar graph showing the favorite school subjects. Be sure to include a title and labels. For your labels, use

R for reading,

M for math,

S for science, and

SS for social studies.



- c. What subject was named most often?

Science

Mathematics

Session 3 (No Calculator)

You may NOT use a calculator during this part of the test.

68. The poster shown below lists the prices of supplies at the school store.

School Store	
pencil	\$0.15
pen	\$0.70
notebook	\$1.85
water bottle	\$2.00

- a. Erin had \$4.00. She bought 1 pen and 1 notebook. How much money did Erin spend? Show or explain how you found your answer.
- b. How much money does Erin have left from her \$4.00? Show or explain how you found your answer.

Scoring Guide

Score	Description
4	4 points
3	3 points
2	2 points
1	1 point
0	Response is incorrect or contains some correct work that is irrelevant to the skill or concept being measured.
Blank	No response.

Scoring Notes

Part a: 2 points	for correct answer, \$2.55 , with work shown or explanation
OR	
1 point	for correct answer with incomplete or no explanation or work shown or for correct strategy that may have one computational error
Part b: 2 points	for correct answer, \$1.45 (or correct based on incorrect part a) , with work shown or explanation
OR	
1 point	for correct answer with incomplete or no explanation or work shown or for correct strategy that may have one computational error

Sample Responses:

Part a: $\$1.85 + \$0.70 = \$2.55$

Part b: $\$4.00 - \$2.55 = \$1.45$

Score Point 4

Sample 1

The poster shown below lists the prices of supplies at the school store.

School Store	
pencil	\$0.15
pen	\$0.70
notebook	\$1.85
water bottle	\$2.00

- a. Erin had \$4.00. She bought 1 pen and 1 notebook. How much money did Erin spend? Show or explain how you found your answer.

Erin spent \$2.55. I got my answer by adding 70¢ to \$1.85. And that's how I got my answer.

- b. How much money does Erin have left from her \$4.00? Show or explain how you found your answer.

Erin has \$1.45 left. I got my answer by subtracting \$2.55 away from \$4.00. And that's how I got my answer.

Score Point 4

Sample 2

The poster shown below lists the prices of supplies at the school store.

School Store	
pencil	\$0.15
pen	\$0.70
notebook	\$1.85
water bottle	\$2.00

- a. Erin had \$4.00. She bought 1 pen and 1 notebook. How much money did Erin spend? Show or explain how you found your answer.

$$\begin{array}{r} 1.70 \\ + 1.85 \\ \hline 3.55 \end{array}$$

- b. How much money does Erin have left from her \$4.00? Show or explain how you found your answer.

$$\begin{array}{r} 4.00 \\ - 3.55 \\ \hline 0.45 \end{array}$$

Score Point 3

Sample 1

The poster shown below lists the prices of supplies at the school store.

School Store	
pencil	\$0.15
pen	\$0.70
notebook	\$1.85
water bottle	\$2.00

- a. Erin had \$4.00. She bought 1 pen and 1 notebook. How much money did Erin spend? Show or explain how you found your answer.

I added 70 and 1.85 and got the answer

Answer: 2.55

- b. How much money does Erin have left from her \$4.00? Show or explain how you found your answer.

I took 2.55 and subtracted it from 4.00 dollars and got the Answer

Answer: 1.45

Score Point 3

Sample 2

The poster shown below lists the prices of supplies at the school store.

School Store	
pencil	\$0.15
pen	\$0.70
notebook	\$1.85
water bottle	\$2.00

- a. Erin had \$4.00. She bought 1 pen and 1 notebook. How much money did Erin spend? Show or explain how you found your answer.

\$2.55

I added 70¢ +
\$1.85 and my answer
was \$2.55

- b. How much money does Erin have left from her \$4.00? Show or explain how you found your answer.

\$2.55

I subtracted \$4.00 -
\$2.55 and came up with
\$2.55 \$2.55 was my answer.

Score Point 2

Sample 1

The poster shown below lists the prices of supplies at the school store.

School Store	
pencil	\$0.15
pen	\$0.70
notebook	\$1.85
water bottle	\$2.00

- a. Erin had \$4.00. She bought 1 pen and 1 notebook. How much money did Erin spend? Show or explain how you found your answer.

She spent \$2.55.

$$\begin{array}{r} \$0.70 \\ + 1.85 \\ \hline \$2.55 \end{array}$$

- b. How much money does Erin have left from her \$4.00? Show or explain how you found your answer.

Erin would get 55¢ back.

Score Point 2

Sample 2

The poster shown below lists the prices of supplies at the school store.

School Store	
pencil	\$0.15
pen	\$0.70
notebook	\$1.85
water bottle	\$2.00

- a. Erin had \$4.00. She bought 1 pen and 1 notebook. How much money did Erin spend? Show or explain how you found your answer.

$$\begin{array}{r} 0.75 \\ + 1.85 \\ \hline \$2.60 \end{array}$$

- b. How much money does Erin have left from her \$4.00? Show or explain how you found your answer.

$$\begin{array}{r} 4.00 \\ - 2.60 \\ \hline 2.40 \end{array}$$

Score Point 1

Sample 1

The poster shown below lists the prices of supplies at the school store.

School Store	
pencil	\$0.15
pen	\$0.70
notebook	\$1.85
water bottle	\$2.00

- a. Erin had \$4.00. She bought 1 pen and 1 notebook. How much money did Erin spend? Show or explain how you found your answer.

\$2.55

- b. How much money does Erin have left from her \$4.00? Show or explain how you found your answer.

Score Point 1

Sample 2

The poster shown below lists the prices of supplies at the school store.

School Store	
pencil	\$0.15
pen	\$0.70
notebook	\$1.85
water bottle	\$2.00

- a. Erin had \$4.00. She bought 1 pen and 1 notebook. How much money did Erin spend? Show or explain how you found your answer.

$$\begin{array}{r} \$4.00 \\ -1.85 \\ -0.70 \\ \hline \$3.15 \end{array}$$

- b. How much money does Erin have left from her \$4.00? Show or explain how you found your answer.

$$\begin{array}{r} \$4.00 \\ -1.85 \\ -0.70 \\ \hline \$3.15 \end{array}$$

Score Point 0

Sample 1

The poster shown below lists the prices of supplies at the school store.

School Store	
pencil	\$0.15
pen	\$0.70
notebook	\$1.85
water bottle	\$2.00

- a. Erin had \$4.00. She bought 1 pen and 1 notebook. How much money did Erin spend? Show or explain how you found your answer.

$$\begin{array}{r} \$0.70 \\ + \$1.85 \\ \hline \$1.05 \end{array}$$

- b. How much money does Erin have left from her \$4.00? Show or explain how you found your answer.

$$\begin{array}{r} \$0.70 \\ + \$1.85 \\ \hline \$1.05 \end{array}$$

Score Point 0

Sample 2

The poster shown below lists the prices of supplies at the school store.

School Store	
pencil	\$0.15
pen	\$0.70
notebook	\$1.85
water bottle	\$2.00

- a. Erin had \$4.00. She bought 1 pen and 1 notebook. How much money did Erin spend? Show or explain how you found your answer.

$$\begin{array}{r} \$4.00 \\ -1.85 \\ -0.70 \\ \hline \$3.15 \end{array}$$

- b. How much money does Erin have left from her \$4.00? Show or explain how you found your answer.

$$\begin{array}{r} \$4.00 \\ -1.85 \\ -0.70 \\ \hline \$3.15 \end{array}$$